

HITACHI

SERVICE MANUAL

NTSC**MM1R/MM1T****PA****No. 0140****36SDX01SR/MM1R
36SDX01S/MM1T****R/C: CLU-433FC**

Models 36SDX01SR/36SDX01S and 36SDX88B are in the same Solid State Color Television family. The main difference between the 36SDX01SR/36SDX01S and 36SDX88B is the control panel and the CRT. Please refer to model 36SDX88B schematics, assembly, wiring, test and troubleshooting information when servicing models 36SDX01SR/36SDX01S. Refer to Service Manual PA No. 0110 issued in December 1998.

ADJUSTMENT

Please refer to Service Manual PA No. 0110 when adjusting 36SDX01SR/36SDX01S. The only difference is the Chopper Voltage as stated below.

SYMBOL NO.	DESCRIPTION	36SDX88B/MM1	36SDX01SR/MM1R	36SDX01S/MM1T
#	CHOPPER VOLTAGE ADJUSTMENT (PA No. 0110 SECTION 2.3.1 PAGE 47)	VGA MODE= $112\pm0.5V$ DTV MODE= $124\pm0.5V$ SVGA MODE= $140\pm0.5V$	VGA MODE= $112\pm0.5V$ DTV MODE= $124\pm0.5V$ SVGA MODE= $140\pm0.5V$	VGA MODE= $105\pm0.5V$ DTV MODE= $120\pm0.5V$ SVGA MODE= $135\pm0.5V$
RT01	FOCUS ADJUSTMENT (PA No. 0110 SECTION 3.3 PAGE 81)	SAME AS STATED IN PA No. 0110.	SAME AS STATED IN PA No. 0110.	SEE BELOW

36SDX01S/MM1T ONLY

5. Vertical Line Adjustment

Adjust Focus on Cross-Hatch Circle Pattern focusing the point as shown in the right figure.

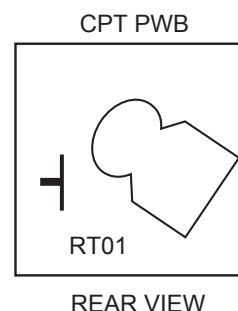
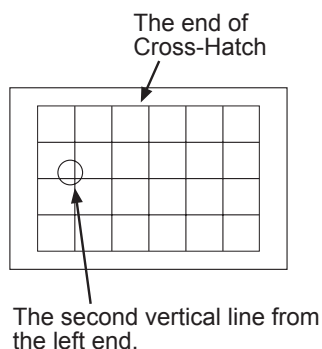
6. Adjust RT01 focusing only at vertical line so that it becomes the most thick; the adjustment point which can be seen the clearest without any saturation.

Concentration point:

Inner point of the circle as shown in the right figure.

Note:

Adjust Horizontal Center Focus again after adjusting Vertical Focus.



SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

SOLID STATE COLOR TELEVISION

MAY 2000

HHEA-MANUFACTURING DIVISION

36SDX01SR/MM1R AND 36SDX01S/MM1T ONLY

PARENTAL CONTROL (V-Chip) operation check

Preparation for Adjustment

- (1) Receive a channel with V-Chip signal.
- (2) Push MENU and select CUSTOM menu by using ◀ or ▶ button.
- (3) Select PARENTAL CONTROL by using ▲ or ▼ button.
- (4) Press ▶ button to set PARENTAL CONTROL mode.
- (5) Enter "7777" for SECRET CODE.
- (6) Select MOVIE RATINGS and TV RATING by using ▲ or ▼ button.
- (7) Press ▶ button to set MOVIE RATINGS and TV RATINGS.

Adjustment Procedure

- (1) Select MOVIE RATINGS MPAA (PG) and TV RATINGS (TV-14/ALL BLOCK)
- (2) Check that Picture & audio should be blocked as follows
"RATING BLOCKED" is displayed when picture is blocked.

Receive Signal	TV-PG	MPAA PG	TV-Y7-FV
Picture/Audio Condition	UNBLOCK	BLOCK	UNBLOCK

- (3) Select MOVIE RATINGS MPAA (PG-13) and TV RATINGS (TV-14/ALL BLOCK)
- (4) Check that Picture & audio should be blocked as follows
"RATING BLOCKED" is displayed when picture is blocked.

Receive Signal	TV-PG	MPAA PG	TV-Y7-FV
Picture/Audio Condition	BLOCK	UNBLOCK	UNBLOCK

- (5) Select MOVIE RATINGS MPAA (PG-13) and TV RATINGS (TV-Y7/ALL BLOCK)
- (6) Check that Picture & audio should be blocked as follows
"RATING BLOCKED" is displayed when picture is blocked.

Receive Signal	TV-PG	MPAA PG	TV-Y7-FV
Picture/Audio Condition	BLOCK	UNBLOCK	BLOCK


- (7) Same check as (1) to (6) should be applied for PINP sub picture. Main picture should receive a channel without V-chip signal. Sub picture should receive a channel with V-chip signal.

NOTE: User setting rating & receive signal rating are displayed on top area of the screen when RECALL button is pressed.

1st line : User setting rating.


2nd line : Receive signal rating.

REPLACEMENT PARTS LIST

This parts list only gives parts which are different from the service manual PA No. 0110. Components having special safety characteristics are identified by a  on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the "Safety Precautions" and "Product Safety Notices" in this Service Manual. Do not degrade the safety of the receiver through improper servicing.


SYMBOL NO.	DESCRIPTION	36SDX88B/MM1	36SDX01SR/MM1R	36SDX01S/MM1T
CG08	CAP 2125 CHIP 100000PF-K B 25V TA	0893027R	--	--
D611	ZENER DIODE	2339825M	2339825M	2339837M
DG09	ZENER HZS12 (C3) 0.005A	2339889M	--	--
DG12	DIODE 1SS254TZ/1SS270TA	2344041M	--	--
DG13	DIODE 1SS254TA/1SS270TA	2344041M	--	--
E801	CRT SOCKET	EY00411	EY00411	2698675
ESF	FOCUS SCREEN LEAD	EZ01001	EZ01001	EZ01003
EVV	CONNECTOR (VM)	2973695S	2973695S	2976645
EWK	3P CONNECTOR	2973715S	--	--


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SYMBOL NO.	DESCRIPTION	36SDX88B/MM1	36SDX01SR/MM1R	36SDX01S/MM1T
I001	MAIN MICRO-CONTROLLER	CP05361	CP05362	CP05362
JY91	3P(SW) PIN JACK WITH S	ES00022	--	--
JY91	JACK 03P HORIZONTAL	--	ES00261	ES00261
JY92	JACK S-TERMINAL	--	ES00271	ES00271
K400	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K406	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K411	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K412	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K421	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K442	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K481	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K482	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K8A1	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
K8A2	JUMPER WIRE (0.5 L=52MM)	2974432M	--	--
KT01	JUMPER WIRE (0.5 L=52MM)	--	--	2974432M
KT02	JUMPER WIRE (0.5 L=52MM)	--	--	2974432M
KT03	JUMPER WIRE (0.5 L=52MM)	--	--	2974432M
KT04	JUMPER WIRE (0.5 L=52MM)	--	--	2974432M
KT05	JUMPER WIRE (0.5 L=52MM)	--	--	2974432M
N201	INSTRUCTION BOOK	QR27362	QR45391	QR45391
N203	V-CHIP REFERENCE GUIDE	--	H462678	H462678
PVV	PLUG PIN SUB MINI	2902262	2902262	2902261
PWK	PLUG PIN SUB MINI 3P	2902262	--	--
R624	RESISTOR	0700056M	0700056M	0700062M
R625	RESISTOR	0700056M	0700056M	0700062M
R627	RESISTOR	0700054M	0700054M	0700058M
R627	RESISTOR	0700054M	0700054M	0700053M
RG18	1.2K OHM (1/16 W)	0195902R	0700042M	0700042M
RG30	RES.-CARBON FLM 1/16W 100-JB	0700027M	--	--
RG40	10K OHM (1/16 W)	0195925R	0700054M	0700054M
RKJ1	RES 2125 CHIP 1/16W 000 TAPE	0195250R	--	--
RKJ2	RES 2125 CHIP 1/16W 000 TAPE	0195250R	--	--
RKJ3	RES 3216 CHIP 1/8W 000 TAPE	0195248R	--	--
RKJ4	JUMPER	0195250R	2974432M	2974432M
RKJ5	JUMPER	0195250R	2974432M	2974432M
RT01	VARIABLE RESISTOR 20MΩ	--	--	AW00241

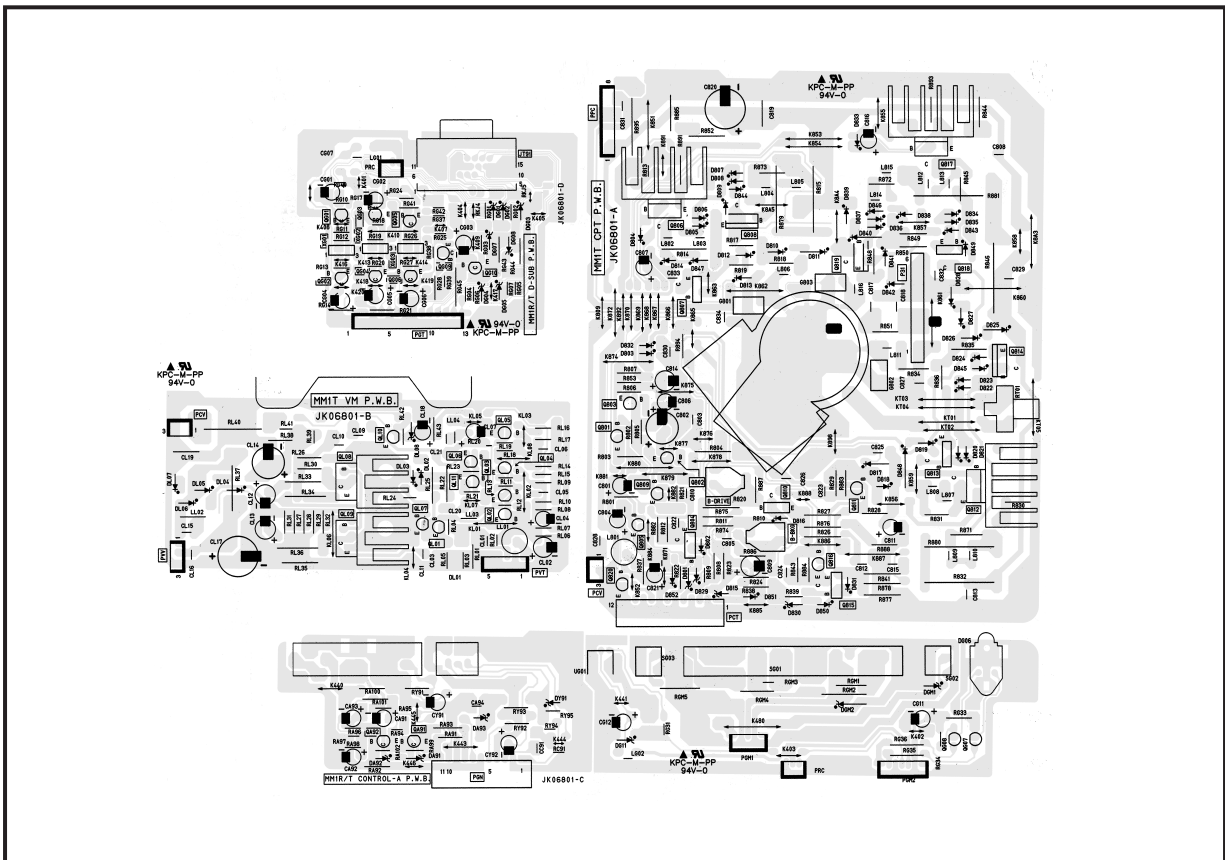
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SYMBOL NO.	DESCRIPTION	36SDX88B/MM1	36SDX01SR/MM1R	36SDX01S/MM1T
RL12	RESISTOR	0700033M	0700033M	0700029M
RL18	RESISTOR	0700036M	0700036M	0700032M
SG01	5 KEY PUSH SWITCH	2632851	2633322	2633322
SG02	PUSH SWITCH	2634621	FE10332R	FE10332R
SG03	PUSH SWITCH	2634621	FE10332R	FE10332R
TH01	FBT	BW00757	BW00757	BW02491
UG02	IC TPS831	CZ00781	--	--
 V1	PICTURE TUBE (A90AGW14X04)	DE01351 (A90AGW14X04)	DE01351 (M90AHL50X33)	DE01921
#030	FRONT FRAME	QD03492	QD09791	QD09791
#030	BACK COVER	Q001574	QD09621	QD09621

PRINTED CIRCUIT BOARD

CPT P.W.B.

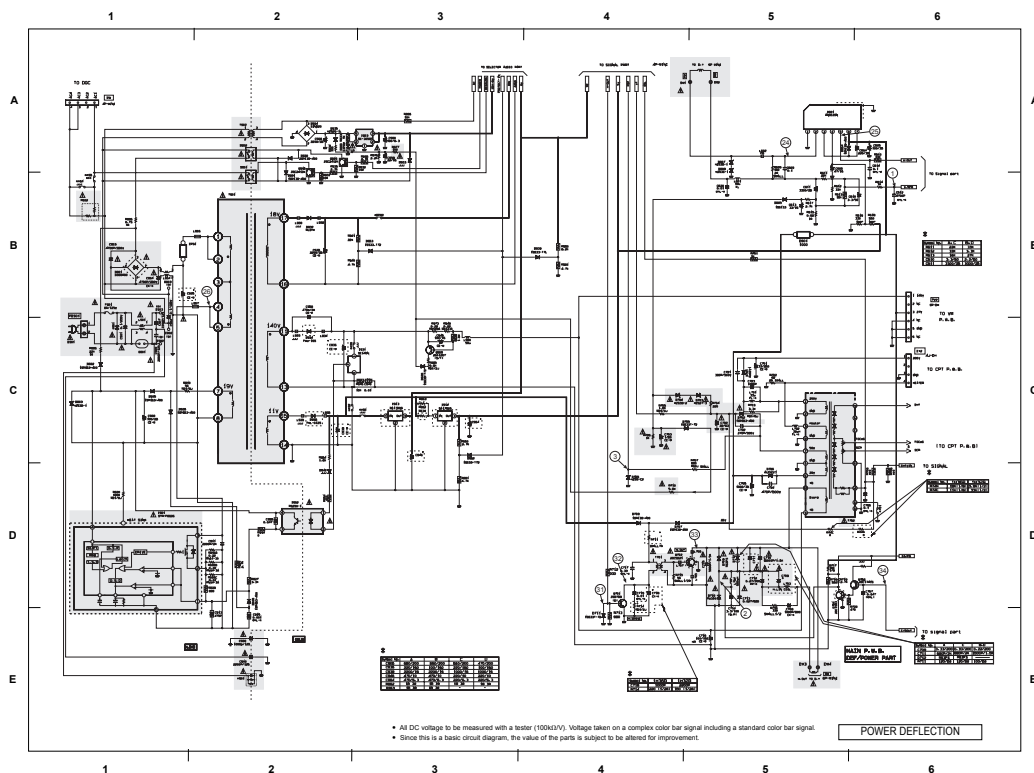


NOTES:

PRODUCT SAFETY NOTE: Components marked with a  and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

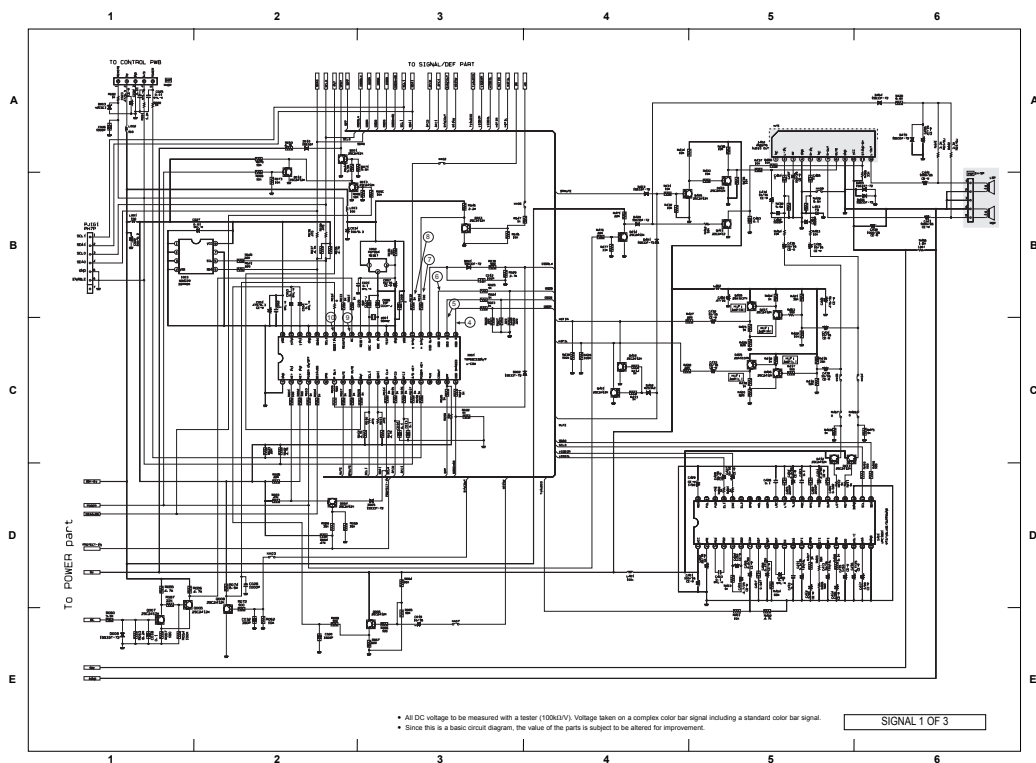
BASIC CIRCUIT DIAGRAM

POWER DEFLECTION
SIGNAL 1 OF 3



BASIC CIRCUIT DIAGRAM

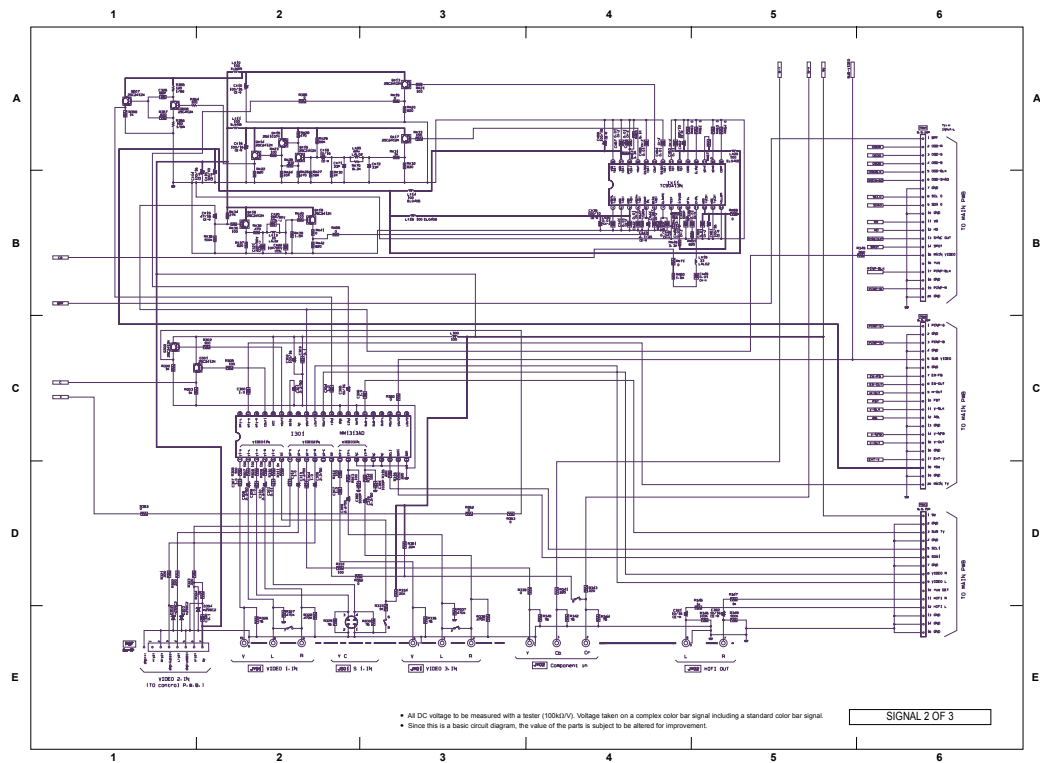
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SIGNAL 2 OF 3
SIGNAL 3 OF 3

BASIC CIRCUIT DIAGRAM

SIGNAL 2 OF 3
SIGNAL 3 OF 3



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

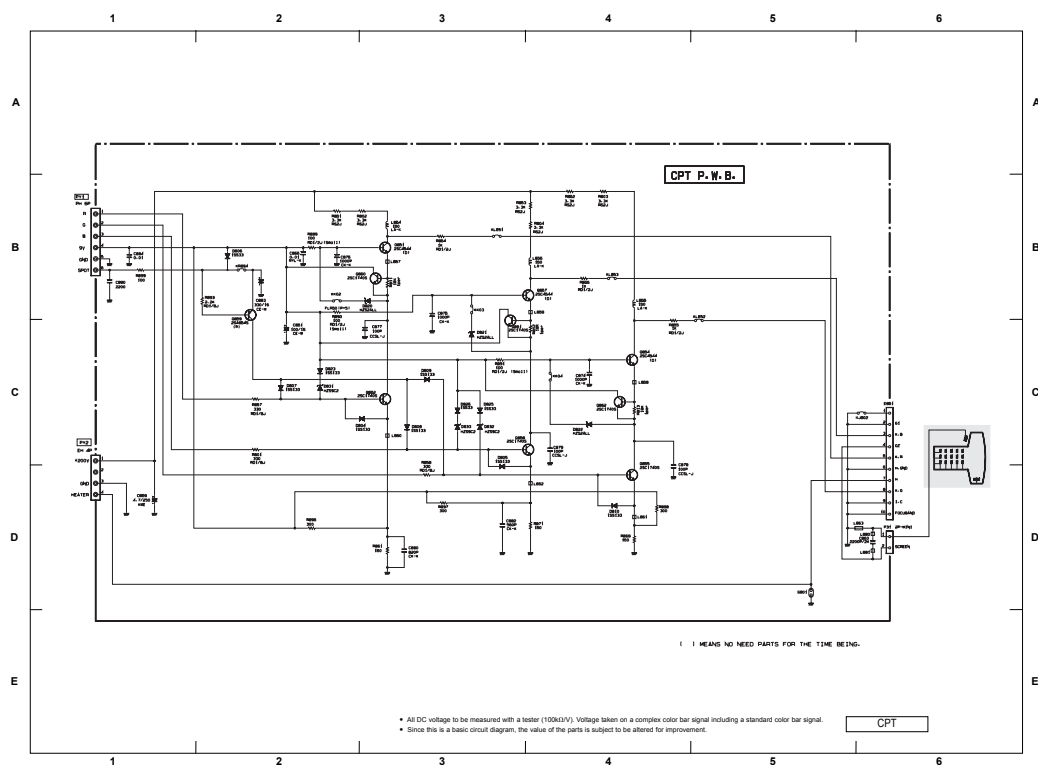
SIGNAL 2 OF 3



TUNER
CPT

BASIC CIRCUIT DIAGRAM

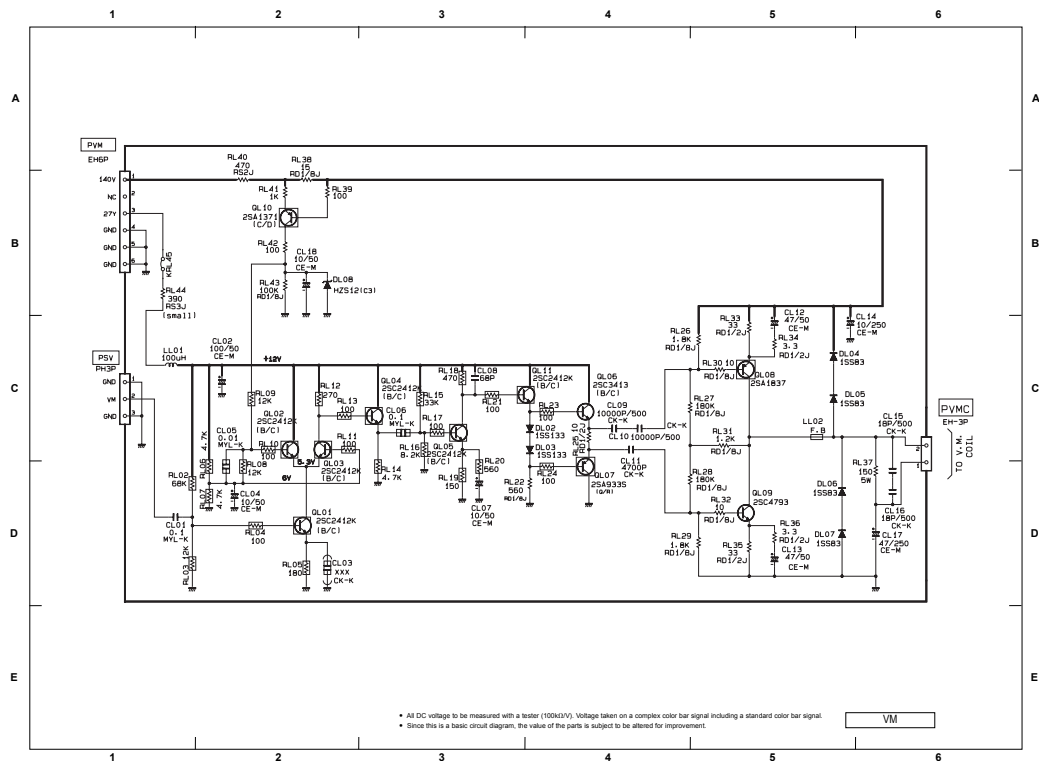
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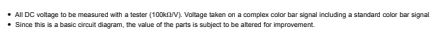


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BASIC CIRCUIT DIAGRAM

VM
CONTROL PANEL





NOTES:

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